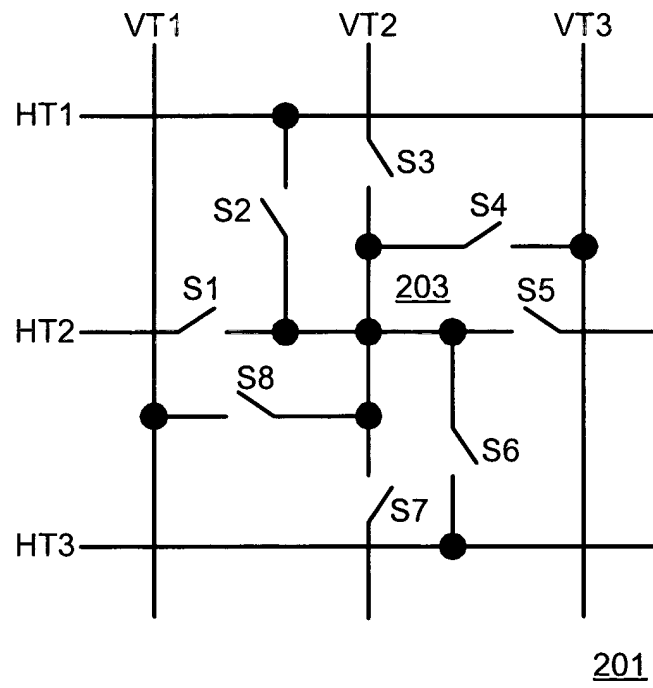
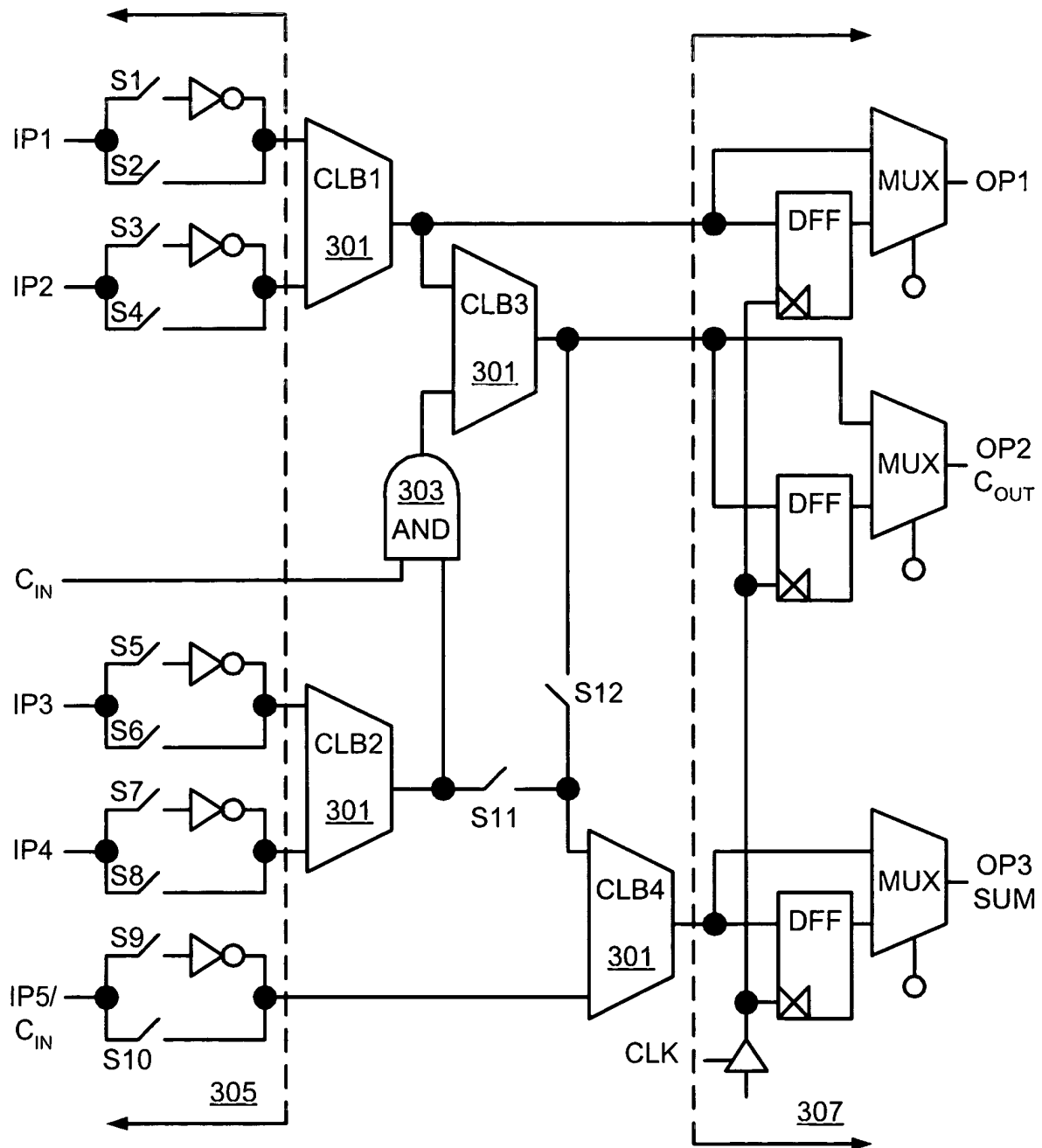
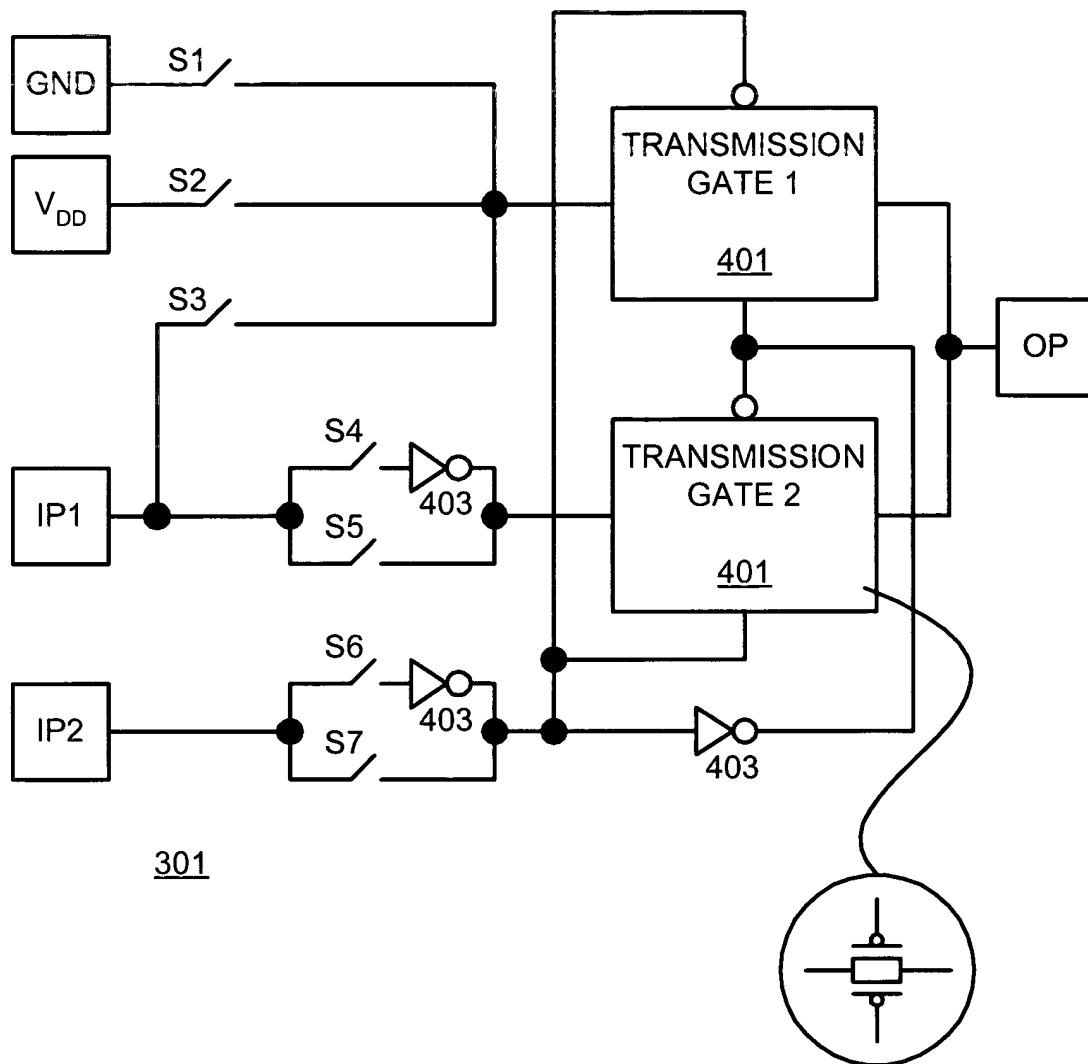
**FIGURE 1**

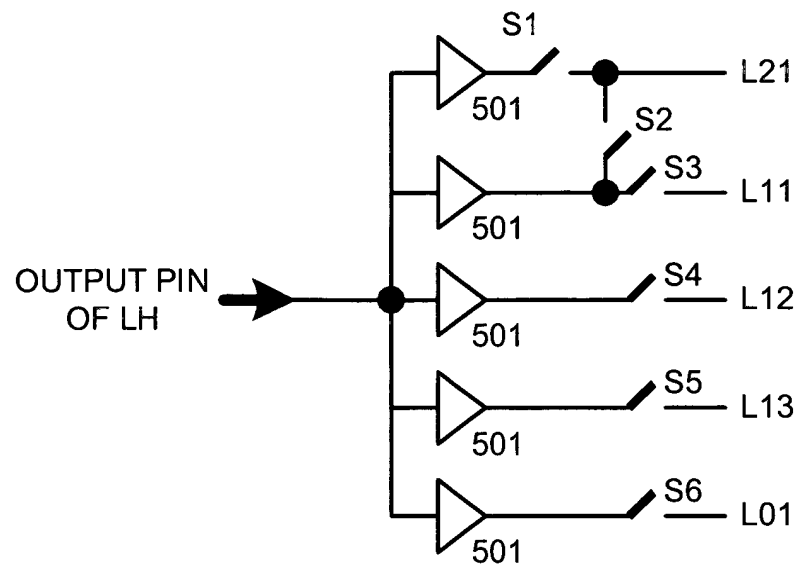
**FIGURE 2**

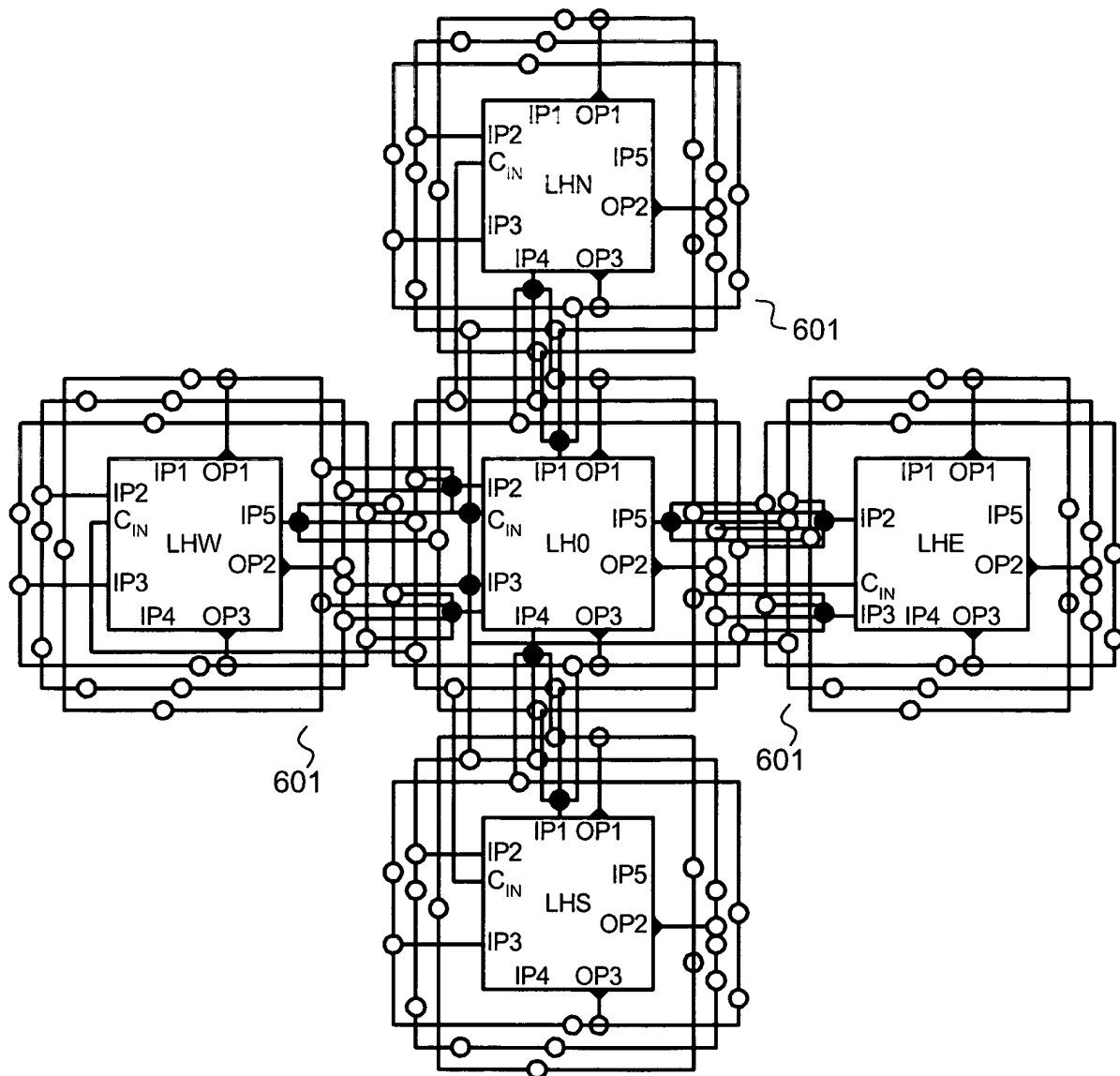


CLB : CASCADABLE LOGIC BLOCK

FIGURE 3

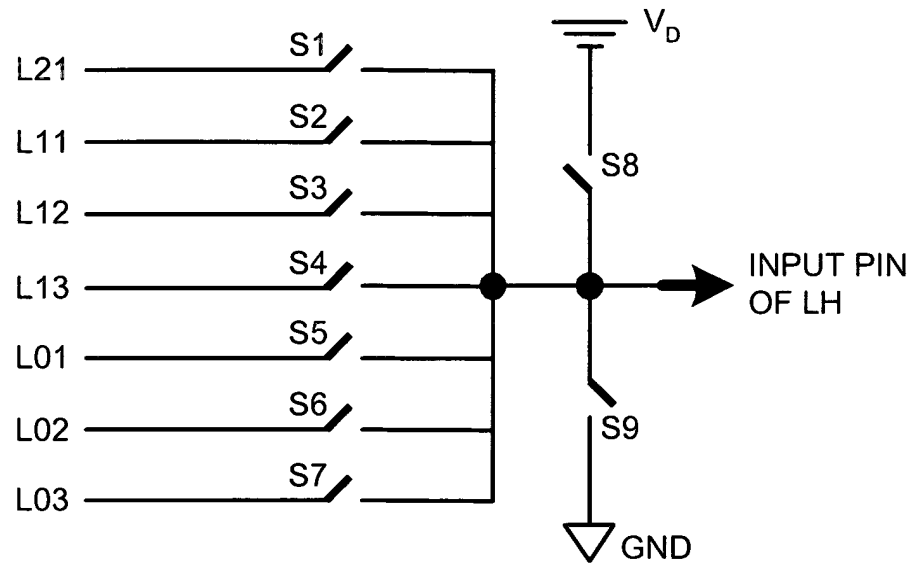
**FIGURE 4**

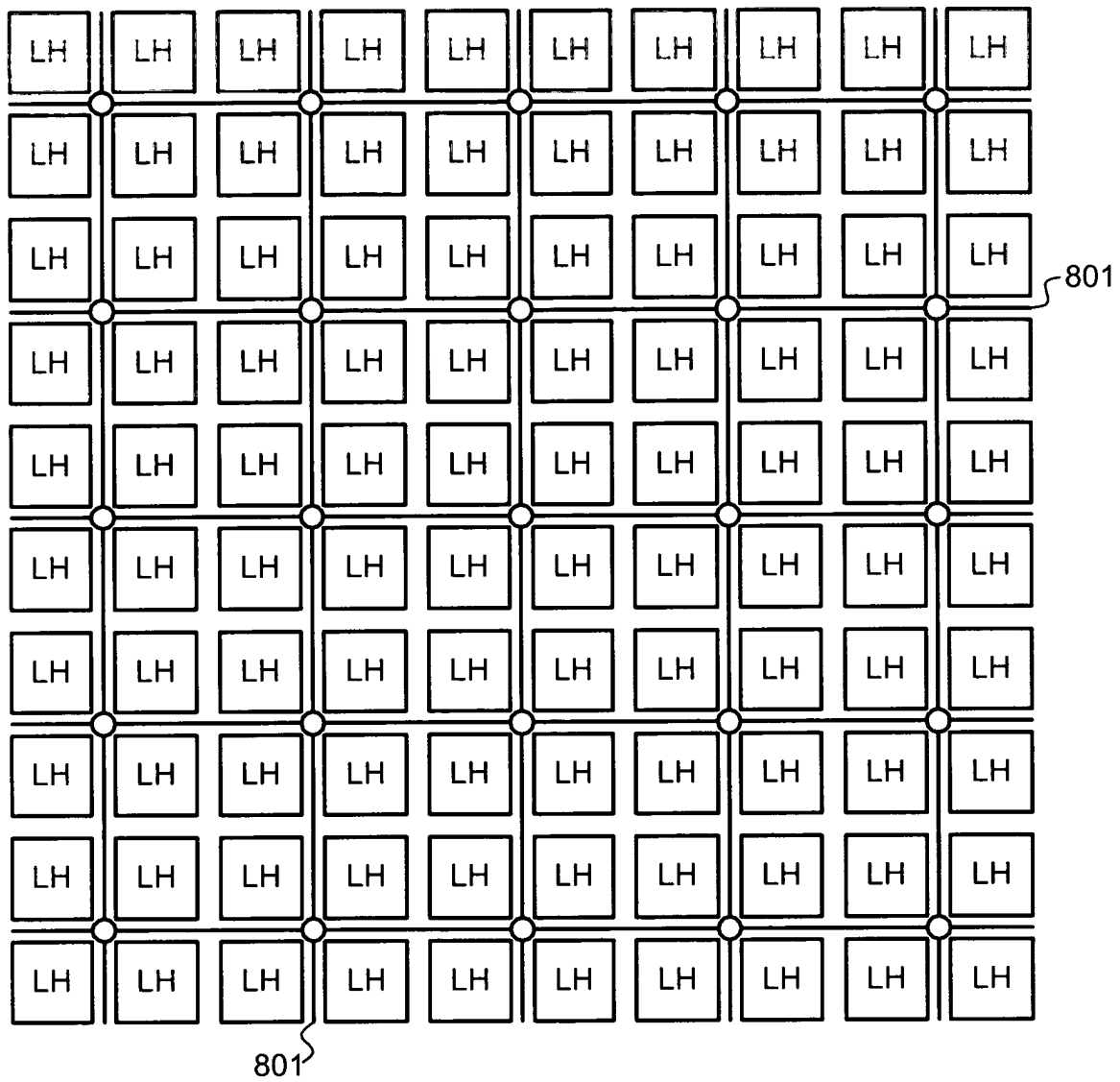
**FIGURE 5**



- PASS TRANSISTOR OR SWITCH
- HARD WIRED
- ▼ BUFFER

FIGURE 6

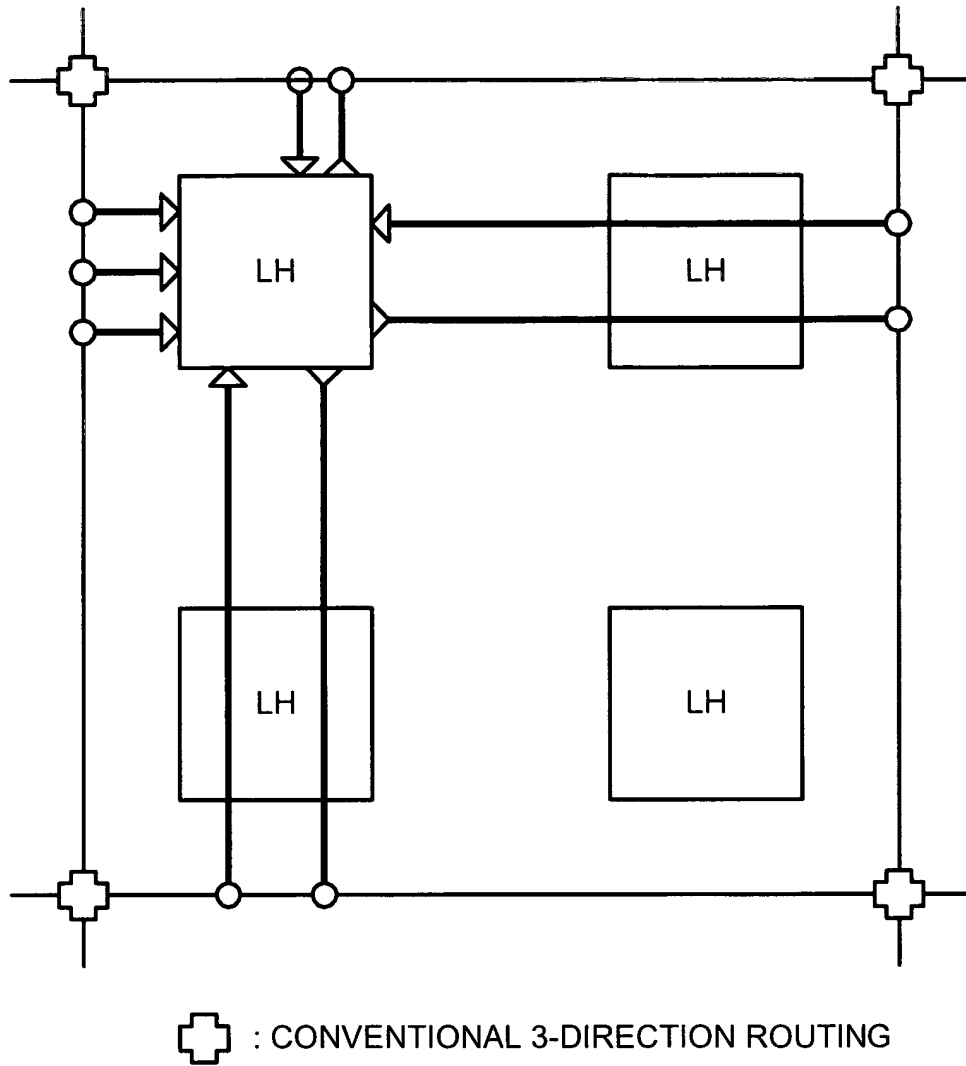
**FIGURE 7**

**FIGURE 8**

SWITCH	S1	S2	S3	S4	S5	S6	S7	EQUATION
AND2	✓	✗	✗	✗	✓	✗	✓	$OP = IP1 \& IP2$
NAND2	✗	✓	✗	✓	✗	✗	✓	$OP = \neg(IP1 \& IP2)$
OR2	✗	✓	✗	✗	✓	✓	✗	$OP = IP1 \mid IP2$
NOR2	✓	✗	✗	✓	✗	✓	✗	$OP = \neg(IP1 \mid IP2)$
XOR2	✗	✗	✓	✓	✗	✗	✓	$OP = (IP1 \& \neg IP2) \mid (\neg IP1 \& IP2)$
XNOR2	✗	✗	✓	✓	✗	✓	✗	$OP = (IP1 \& IP2) \mid (\neg IP1 \& \neg IP2)$

NOTE: ✓ : SWITCH ON ✗ : SWITCH OFF

FIGURE 9

**FIGURE 10**